



## Operating instructions

### TV

- Xelos A 20 DVB-T
- Xelos A 20
- Mimo L 20 DVB-T
- Mimo L 20



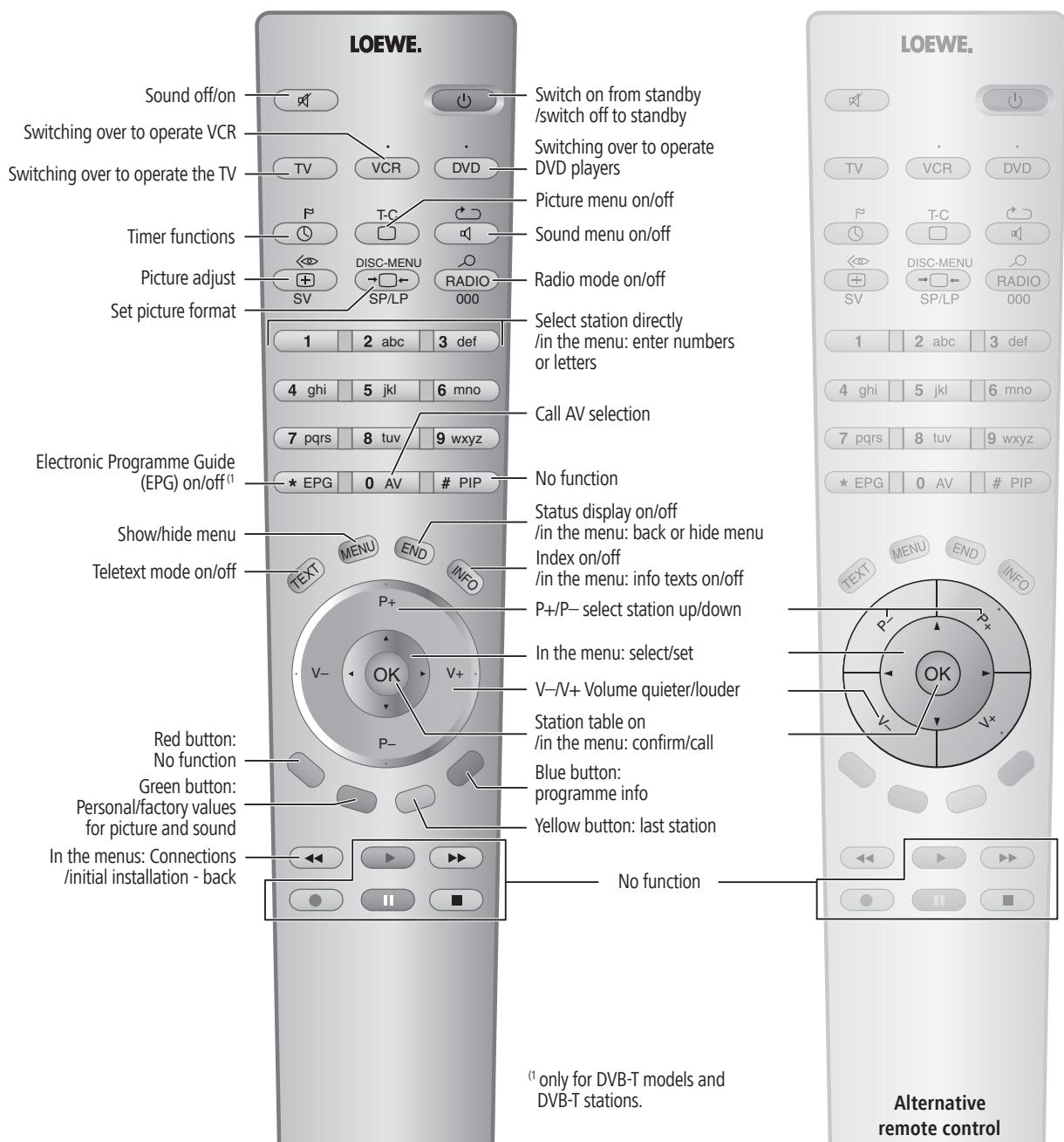
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# Remote control RC4 – TV functions



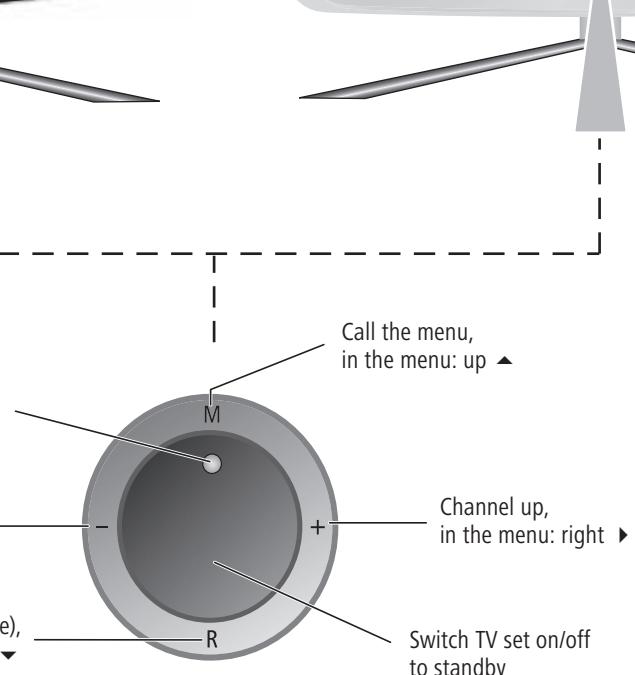
# Control unit



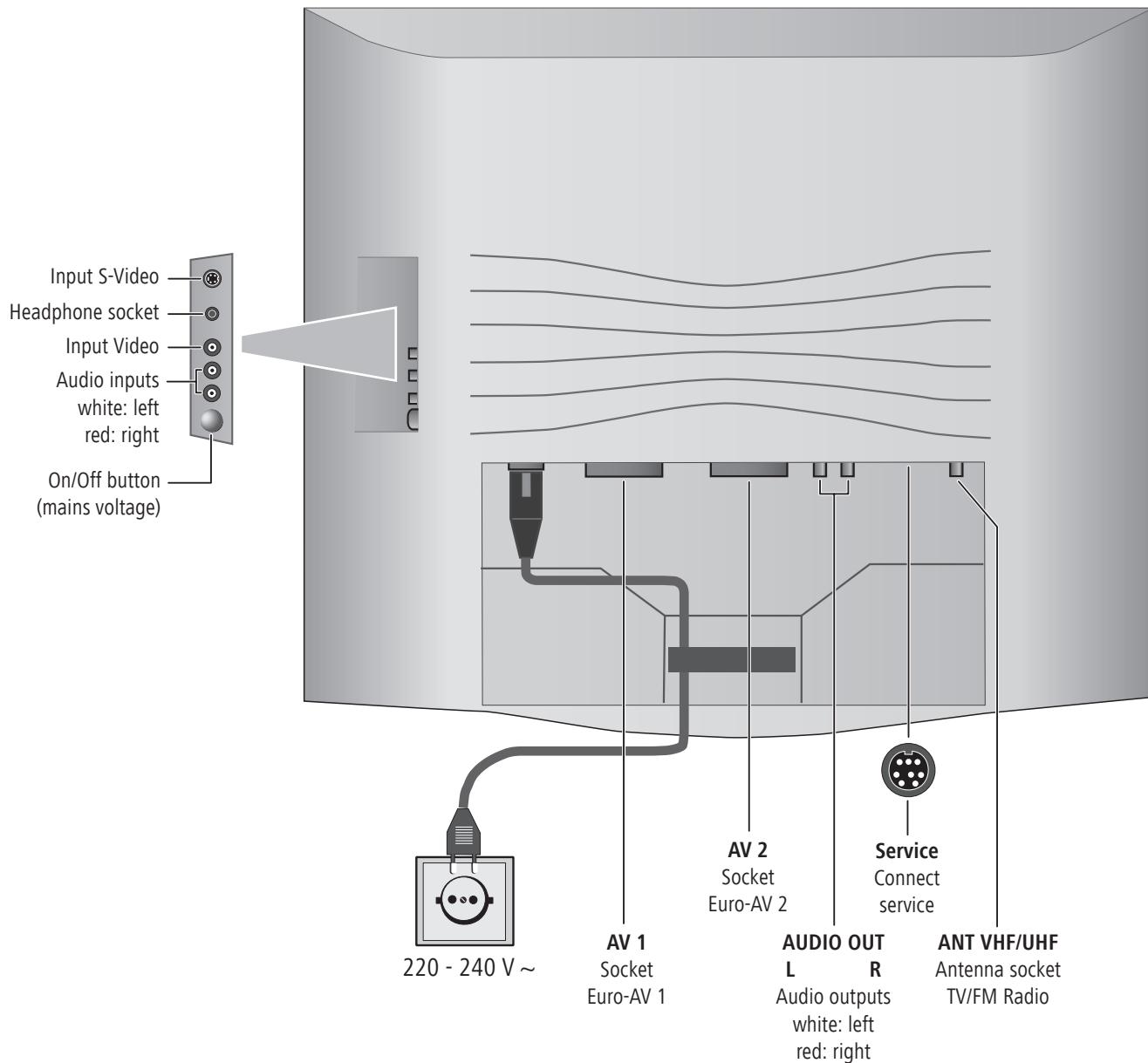
Indicator:  
red = standby  
green = operation  
orange = operation without screen display  
(e.g. for radio operation)

Channel down,  
in the menu: left ▲

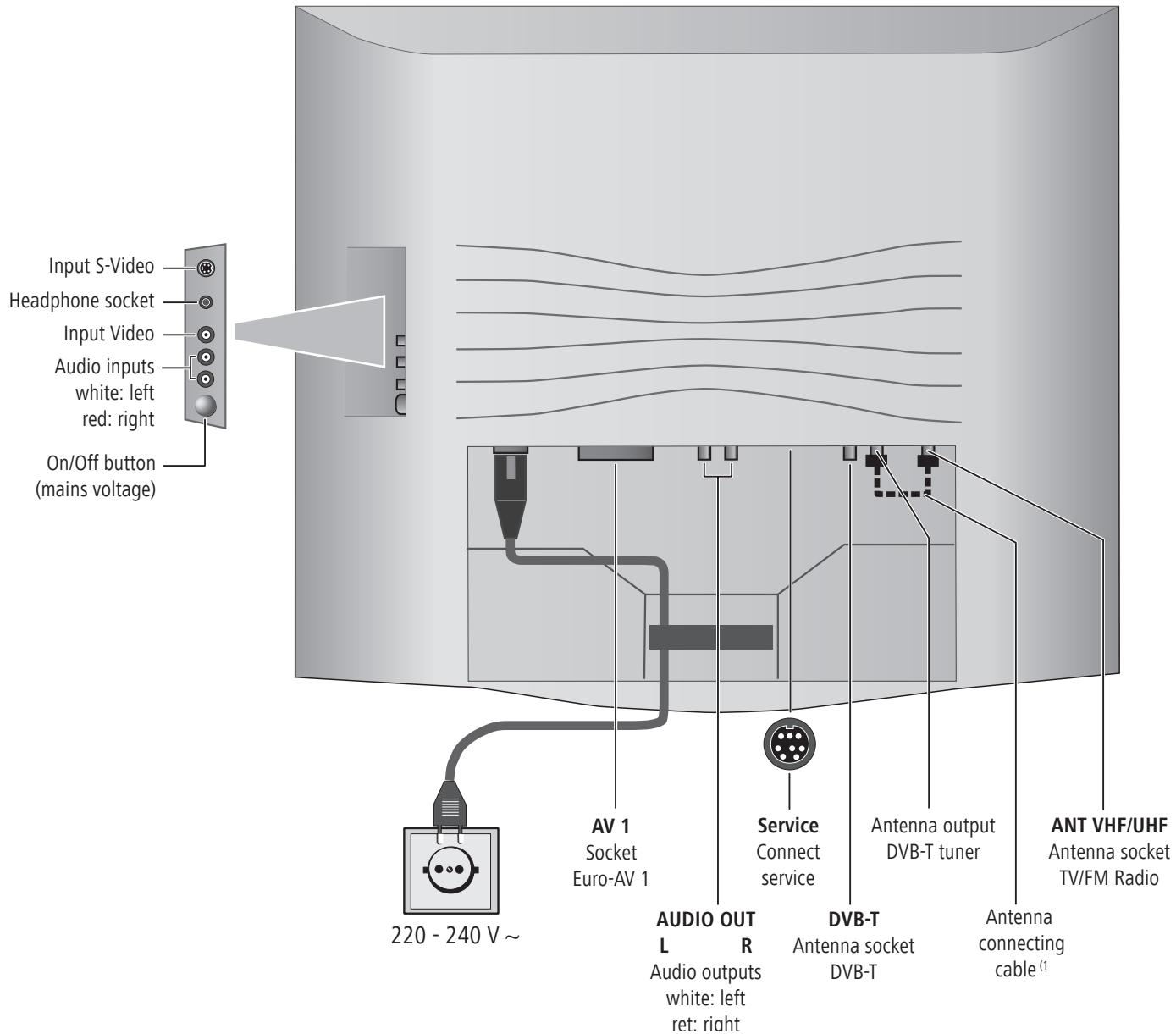
Radio on/off (back to TV mode),  
in the menu: down ▼



## Connections to rear panel - Xelos A20 / Mimo L20



## Connections to rear panel - Xelos A20 DVB-T / Mimo L20 DVB-T



<sup>(1)</sup> If the set is connected to an antenna system in which the digital (DVB-T) and analogue antenna signals are distributed together house internally, a connecting cable must be plugged as illustrated. The antenne bridge then makes the connection with the analogue tuner.  
In all other cases, connect your antennal(s) as described on page 9.

# Welcome

## Thank you

for choosing a Loewe product.

We are happy to have you as a customer.

At Loewe we combine the highest standards of technology, design and user friendliness. This applies equally for TV, video and accessories.

Neither technology nor design is an end in itself, but both are intended to provide our customers with the best possible audio and visual experience.

We have designed the TV set in such a way that it is easy to operate with menus. Information about settings in menus is shown automatically for fast comprehension of the situation.

You will find the answers to many of your technical queries in the index of your TV. If it is a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason, why this operating manual only explains the most important operating steps.

## Features

You can find out the features of your TV set by calling Index - Integrated features (call up by pressing the **INFO** key in TV mode, while no menu is displayed). With the remote control RC4, you can operate three Loewe units, this TV, a Loewe video recorder and a Loewe DVD player.

## Transporting

Only transport the unit in an upright position. Hold the set by the top and bottom edges of the housing. The LCD screen is made of glass and/or plastic and may break if not handled carefully. Should the LCD screen become damaged or should the liquid crystal begin to leak, then it is imperative you wear rubber gloves when removing the set. Should the liquid come in contact with your skin, thoroughly rinse with water immediately.

## Note on LCD screen

The screen you have purchased meets the highest quality requirements in this segment and has been tested for pixel errors. Despite the utmost caution in production of the sets, it cannot be totally ruled out that some of the pixels might be defective for technological reasons.

Please understand that such effects cannot be considered as a unit defect in the sense of the warranty as long as they are within the limits specified by the standard.

## Installation options

### as a desktop unit

Use the base included in delivery.

### as a wall-mounted unit

- Wall holder WM35, Loewe order no. 65495A00.
- VESA adapter, Loewe order no. 89691A00

### as a freestanding unit

- Flat-TV F-Stand 2, Loewe order no. 63495A00.

## Cleaning

Use only a soft, clean, damp cloth to clean the TV, LCD screen and remote control (don't use any caustic or abrasive cleaning agents).

## Disposal

### Packing and box

You have chosen a long lasting technical product of very high quality. We have paid a fee to authorised recyclers who will collect the packing from your dealer for disposal, pursuant to domestic regulations. Nevertheless, we recommend you to keep the original box and packing material for optimum protection if you have to transport the set.

### The set



Attention: The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. Hence, all used electronic devices are to be disposed of separately. Please do not dispose of this set in the normal household rubbish.

You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. You can find out more about recycling (also for countries outside the EU) from your local government.

# For your safety

## For your safety and to avoid unnecessary damage to your TV set, please read and observe the following safety instructions:

- This TV set is designed exclusively for reception and reproduction of video and audio signals.
- This equipment is designed for domestic and office environments and must not be used in rooms with high humidity (e.g. bathroom, sauna) or high concentrations of dust (e.g. workshops). If the equipment is used in the open air, ensure that it is protected against moisture (rain, drips, splashes, sprayed water or dew). Do not place any containers filled with liquids or lit candles on top of the TV.

High levels of moisture and concentrations of dust cause leakage currents in the equipment, which can lead to danger of electric shock or fire.

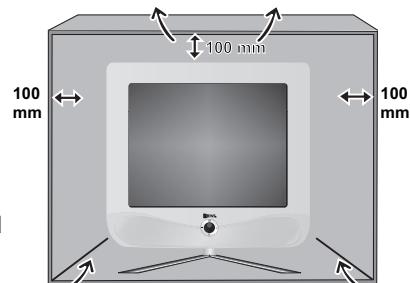
The manufacturer's warranty is only valid for use in the specified permissible environment.

- If you have moved the TV set out of the cold into a warm environment, leave it standing for about an hour since condensation may form.
- This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the power cable provided. Incorrect voltages can damage the equipment.
- Like all electronic equipment, your TV needs air for cooling. Obstruction of the air circulation can cause fires. Therefore the air vents on the back must always be kept free. Please do not place newspapers or cloths on/over the TV.

If the TV is placed in a cabinet or on a shelf, leave at least 10 cm at the sides and 10 cm at the top to ensure sufficient air circulation.

Position the set so that it is not exposed to direct sunlight and additional heating from radiators.

- Prevent any metal parts, needles, paper clips, liquids, wax or the like from getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the inside of the TV set, pull out the plug immediately and notify customer service.
- Never remove the back of the TV set yourself. Repair and servicing of your TV set should only be carried out by authorised TV technicians.
- Place the TV set on a level, firm base. The set should not protrude at the front when installing in cabinets or shelves.



Only use original accessories if possible, e.g. Loewe wall holders and stands. Never let children handle the TV unattended.

Do not allow children to play in the immediate vicinity of the TV, they could knock, shift or pull it over and injure someone.

Never leave the TV on unsupervised.

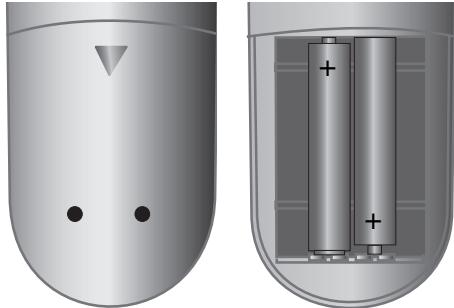
- Do not install the TV where there may be vibrations. Vibrations can lead to material stress.
- Pull out the power and antenna cables during thunderstorms. Surge voltages caused by lightning strikes can damage the TV through the antenna system and the mains. Also remove the antenna and mains plugs in long periods of absence.
- The mains plug of the TV set must be easily accessible so that the set can be disconnected at any time.
- Lay the mains cable in such a way that it will not be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A mains cable with damaged insulation can lead to electric shocks and is a fire risk.
- When removing the mains plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.

# Initial installation

## Remote control

### Batteries

To insert or change the batteries press on the arrow. Slide the battery compartment cover downwards and remove it. Insert Alkali Mangan LR 03 (AAA) batteries and ensure that the + and – ends are connected correctly. Slide the cover upwards to shut.



### Information for the disposal of batteries



The batteries provided contain no harmful materials such as cadmium, lead or mercury.

Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish.

Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

## Set the remote control for operating the TV



Press the **TV** button.

How to operate other Loewe equipment is described on page 23.

## Connection

### Power mains

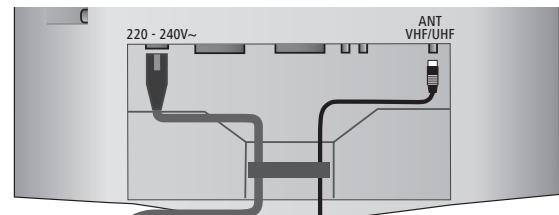
Plug the small plug of the power cable into the mains socket on the back of the TV, the large plug into a 220-240V/50–60 Hertz power outlet.

### Antenna

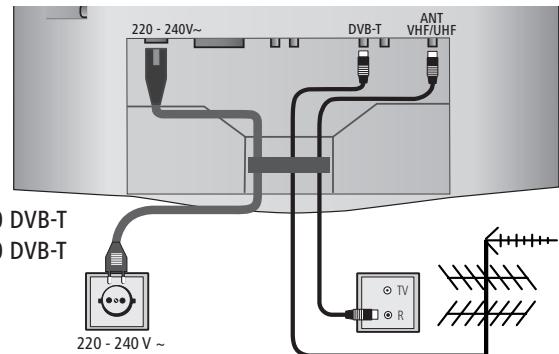
Connect the cable system on the back of the set to the **ANT VHF/UHF** socket. If separate antennae exist for the radio and TV reception, the two antennae must be connected by an antenna switch. Appropriate antenna switches are available from your dealer.

In DVB-T models, connect the DVB-T antenna to the **DVB-T** socket and connect a FM (VHF) antenna to the **ANT VHF/UHF** socket if necessary (please remove any plugged antenna bridge, see page 6).

Lay the cables in the cable holder in the rear middle of the TV set.



Xelos A 20  
Mimo L 20



Xelos A 20 DVB-T  
Mimo L 20 DVB-T

If the reception conditions are good, then a room antenna may be used for DVB-T. Passive and active room antennas are available on the market. The power is supplied for an active antenna via the antenna connection. For automatic programming or in "TV Menu – Connections – Antenna DVB-T," the distribution voltage (5 volts) is to be set correspondingly.

It may be practical to use a nondirectional antenna. If the location is outside the normal transmitting range, then a unidirectional antenna may also be used to improve the reception quality.

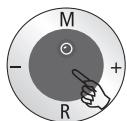
You can find out more on the digital stations that can be received in your area at your specialist dealer.

# Initial installation

## Switch On/Off



Press the On / Off button (mains voltage) on the right hand side of the set until it locks.  
The red indicator on the TV set now lights up (standby mode).



Switch on the set with the switch integrated in the display. The green indicator now lights up (other operating possibilities, see page 11).

It takes about 2 minutes after switching for the screen to reach full brightness due to the LCD technology.

If you will not be using the TV set for a long time, e.g. during a vacation, switch it off with the On/Off button (mains voltage). The set is then disconnected from the power supply.

## Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus



By pressing the **OK** button in the direction of the arrow  
◀ ▶ ▼ ▲ you select the setting ...



... and confirm your settings with **OK**. You then go to the next menu.



Back to the previous menu.

1. First you have to select the menu language.  
In models **without** DVB-T, please continue with step 3.
2. Press the **OK** button to go to the "Signal source" menu. If you want to receive terrestrial stations digitally (only in DVB-T models), select "DVB-T", confirm with the **yellow** colour button. If you select "Antenna/cable" as well, you can also search for and store conventional analog stations.
3. For specific national station sorting and pre-settings, enter the location at which your TV is being used.  
In models **without** DVB-T, please continue with step 5.
4. When you have selected "DVB-T", you go to the "Antenna DVB-T" menu. If you are using an active antenna, mark "yes (5V)".

5. With **OK** you get an overview of which settings are to be used for the automatic programming.
6. Press the **OK** button again to start the station search. The set searches for, sorts and stores all receivable TV stations, according to your setting and the connected antenna.
7. When the TV stations are stored, an appropriate message is displayed.
8. The radio stations are then searched for with **OK**.
9. The TV set searches for, saves and sorts all radio stations which are receivable on your antenna system.
10. When the radio stations are stored, an appropriate message is displayed.
11. The station search is terminated with **OK**.
12. Finally log in your recorder, DVD player etc. and connect it with the TV set (also see page 21)

You can repeat initial installation at any time, e.g. after moving house.



Call the index with the **INFO** button.



Select the index item "Repeat initial installation".



Start with **OK**.

## Channel sorting

You can change the station sorting that was carried out automatically later at any time, see "TV menu – Settings – Channels – Change".

Signal source	
Antenna/cable	
DVB-T	✓

Mark/unmark

OK Proceed

Back

# Initial installation

## Directing DVB-T antenna

(only for DVB-T models)

If you use a room antenna to receive one or more DVB-T stations that have picture and sound interference, then you should change the location of where the antenna is set up.

To help you direct your antenna or to help you determine the most suitable location to set up the antenna, your TV set has a display for the signal quality **C/N** and the signal strength **Level**.

Consult your specialist dealer to find out which channels and frequency bands (VHF or UHF) are used to broadcast the digital TV stations in your area.

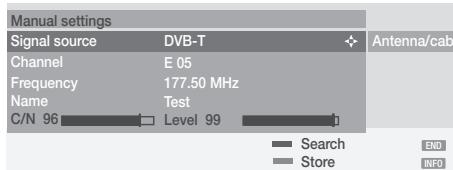
On any one channel, several digital stations are broadcast.

### Select a TV channel

1. Call the "TV menu" via the **MENU** button.
2. Use **◀ ▶** to select "Settings", then use **▼** to select the menu line underneath.
3. Select "Channels", then use **▼** to select the menu line underneath.



4. Select "Manual settings" and call the menu using **OK**

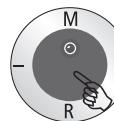


5. For digital stations, select "Signal source – DVB-T".
6. Use the **numerical buttons** to specify the corresponding channel number. When you receive a digital station, the system displays the signal quality **C/N** via a bar/numeric value and the signal strength via **Level**. The antenna's direction or position is best when the largest values possible are displayed (long bar) for the signal quality and signal strength.
7. Direct the antenna so that the largest numerical value/bar size is reached.
8. If no signal is found in the channel set, you can start the frequency search run by pressing the **blue** button within the band selected (VHF or UHF).
9. Check the other channels one after another on which digital stations are broadcast terrestrially in your area. For the weakest station, direct the antenna so that the maximum numerical value/bar size is achieved.
10. After you position or direct the antenna, we recommend to search for all the stations using the "Search wizard" (TV menu – Settings – Channels – Automatic search).

# Daily operation

## Switch on from stand-by

On the set:



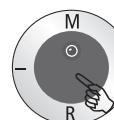
If the LED on the set glows red or orange:

Press the display window to switch the set on.



If the red LED on the set is not alight:

Press the On / Off button (mains voltage) on the right hand side of the set.



Switch to stand-by:

Press the display window, the LED changes colour from green to red.

## Switch on/off with the remote control

The set is on stand-by, the red LED is alight:



Press the blue **on/off** button on the remote control to switch on the set or ...



with a numeric key (0 – 9) or ...



with the **OK** button.

The green operating LED then lights up.



**Switch on radio mode:**

(see also page 18).

Press the **Radio** button.



**Switch off radio mode:**

Press the **Radio** button again or ...

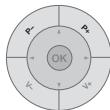


press the button **END**.

# Daily operation

## Changing channels

### 1. With cursor ring



P+ / P-: Channel up/down.

### 2. With the numeric keys of the remote control

#### 1 digit stations

7 pqrs

Press keys 0 – 9 for one second, and the station changes instantly.

Or press button 0 – 9 briefly, the station then changes after 2 seconds (the station changes immediately when only 9 stations are stored).

#### 2 digit stations

2 abc  
7 pqrs

After briefly pressing the first numeric button keep the second numeric button pressed for one second, the station then changes immediately.

Or press both numeric buttons briefly, the station then changes after 2 seconds. (the station changes immediately when only 99 stations are stored).

#### 3 digit stations

1  
7 pqrs  
9 wxyz

After briefly pressing the first and second numeric button keep the third numeric button pressed for one second, the station then changes immediately.

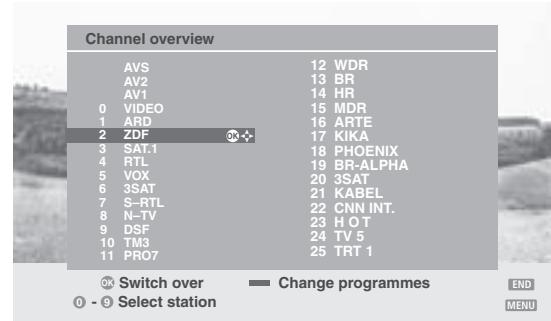
Or press the three numeric buttons briefly, the station then changes after 2 seconds (the station changes immediately when only 199 stations are stored).

The set has 200 TV memory locations and 3 audio/video memories (AV). DVB-T models have 2 audio/video memories (AV).

### 3. Via the channel overview



Call the channel overview with **OK**.



Select station

or



select with numeric buttons,



call selected station.

Note: Digital DVB-T stations (only in DVB-T models) are marked by "D".

## Calling up audio/video channel positions



**via the station table:**



**AV1** for playing a video device which is connected to the EURO AV socket 1.



**AV2** for playing a video device which is connected to the EURO AV socket 2.

(AV2 is not available in DVB-T models).



Call with the **OK** button.

(Further information can be found on page 22).

# Daily operation

## General information about the menu operation

We show you how to navigate with the menus with the TV menu as an example. You'll be able to see which **◀ ▶ ▼ ▲** to use from the dark blue box on the right.

**MENU**

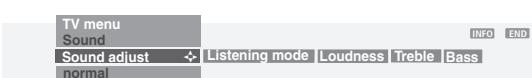
Open TV menu (in TV mode).



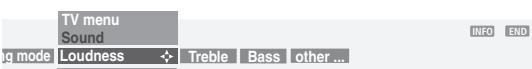
Select the function in the TV menu, e.g. "Sound" (for sound settings). With **▶** you move the menu items displayed on the right to the dark blue box, with **◀** the menu items displayed on the left.



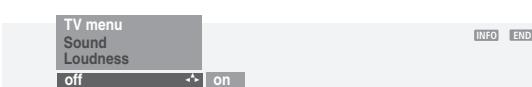
Select the sound function below with **▼**, you will then see a list of the sound settings.



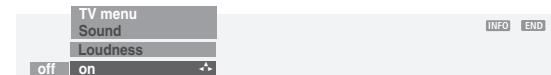
For the audio settings also select the function with **◀ ▶**, e.g. "Loudness" (for treble and bass increase at low volume).



To switch on the Loudness function, mark with **▶** "on".



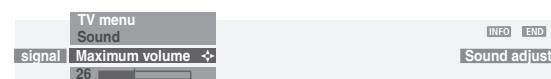
or select "off" with **◀**.



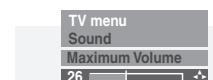
If you want to make other audio settings, go up to "Sound" with **▲** and select "other" with **◀ ▶** for example. You can also move up further to "Sound" with **▲** and select other settings in the TV menu.



Have the other audio settings displayed with **OK**. With **◀ ▶** select the audio setting, e.g. "Maximum volume"



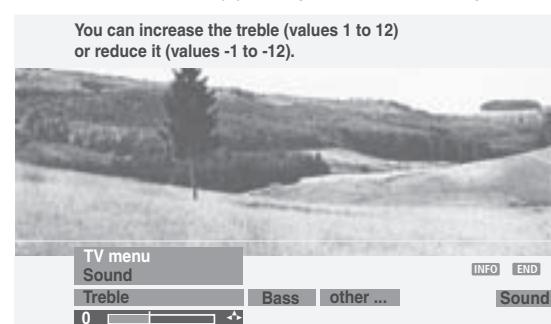
and mark the setting bar for maximum volume with **▼**.



Set maximum volume with **◀ ▶**. Information about the current setting is displayed in the top part of the screen when you press the **INFO** button.



You can hide the infos by pressing the **INFO** button again.



To hide all menus, press the **END** button.

You are now familiar with handling of the menus so that you can easily operate the TV with the other menus.

# Daily operation

## Adjusting the sound

### Setting the volume



With V- / V+.



### Sound off/on



Sound off;

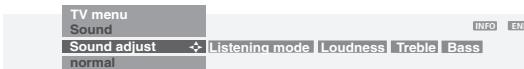
Sound on: Press button again or ...

adjust volume with V- / V+.

### Other sound settings



Call the sound menu.



Select the sound function to be set with **◀ ▶** and with **▼** to the appropriate selection...



... and select/set with **◀ ▶**.

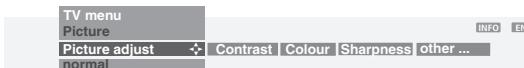
Sound settings: Sound adjust (normal, Pop, Classical, Speech), Listening mode (Stereo, Panorama, Dolby Virtual), Loudness, Treble, Bass.

Under "other ..." you will find Sound via (TV or HiFi), Loudspeaker sound, AV audio signal, Maximum volume.

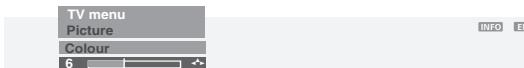
## Setting the picture



Open the Picture menu.



Select the picture function to be set with **◀ ▶** and with **▼** to the appropriate selection...

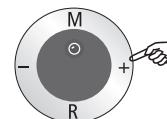


... select/set with **◀ ▶**.

Picture settings: Picture adjustment (normal, intensive, soft), contrast, colour and sharpness. After "others...." you will find brightness, tint in NTSC, picture format (4:3, cinema, zoom, 16:9 zoom, 16:9), Move pict. up/down and movie mode (DMM).

## Operation on the TV set

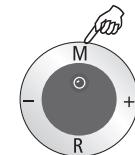
### Switching channels on the TV set



+ Channel up

- Channel down

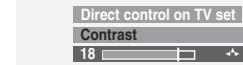
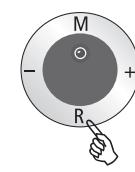
### Volume, brightness, contrast, color and picture format



Open the menu with **M**.



Select the function to be set with **-** or **+**.



With **R** to the appropriate setting/selection.



Set/select with **-** or **+**.

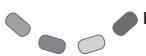
With **M** you go back up one level and can select other functions with **-** or **+**.

# Modes of operation

## TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext or Radio has been selected. Each of these modes of operation has a menu, which you can call with the **MENU** button and with some color button assignments.

### Functioning of the colour buttons in TV mode



**red:** no function

**green:** call personal values/factory values for picture and sound, save picture and sound values as personal values.



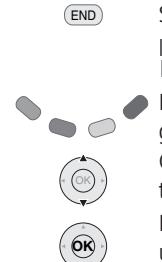
**yellow:** call last viewed channel. You can switch back and forth quickly between two channels with this button.

**blue:** call programme info

(for DVB-T stations<sup>(1)</sup> the EPG with the current station info is called, see page 19).



### Show status display



Show/hide status.



If other languages are broadcast by DVB-T stations<sup>(1)</sup> the "Language/Sound Selection" is displayed under the station display. Call the Language/Sound selection with the **green** colour button and select with **▲ ▼**. Confirm the setting with **OK**. If DVB-T stations<sup>(1)</sup> offer subtitles, "DVB subtitles" is displayed under the station display. Call the setting for DVB subtitles with the **yellow** colour button and select the options with **▲ ▼**. Confirm the setting with **OK**.

## Open index



Open index.

In the "Language" menu you can select your menu language for operating the TV set.



The index answers many questions, concerning your TV set. If you have a question about the operation, you have direct access to it from the index. This set is delivered in different variants. You can find out what equipment your TV has under the menu item "Integrated features".

## Select picture format



If you want to set a different format, press this button until the desired format is selected or select the format with **◀ ▶**.



## Moving the picture vertically



To reveal picture captions, the picture can be moved vertically up and down with **▲ ▼** in the "Cinema" and "Zoom" picture formats. The vertical moving of the picture is only possible when the picture format menu is displayed and the appropriate picture format has been set.

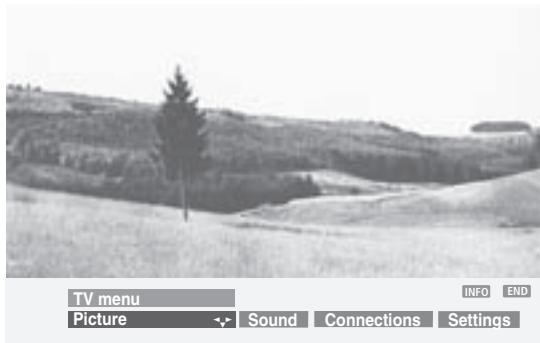
<sup>(1)</sup> only for DVB-T models.

# Modes of operation

## TV menu



Call up TV menu.



You will find a description of the picture and sound settings on page 14. The TV menu offers other settings for the TV set and for connected devices.

### Select devices to be connected under "Connections":

For example video recorder, DVD player/recorder, camcorder/digital camera or Pay-TV decoder.

1. Select the connection (AV1, AV2 <sup>(1)</sup> or AVS) to which you want to connect the device.
2. Confirm with **OK**.
3. Select the device type, e.g. DVD and the signal type CVBS in the list which appears.
4. Confirm with **OK**.
5. Specify which colour standard (e.g. PAL) the connected device transmits the signal with. Note: The signal cannot always be displayed correctly when the "Colour standard Automatic" is selected.
6. Confirm with **OK**.

### Other settings under "Connections"

7. "RGB insertion yes" (via AV1) to play RGB signals e.g. from a games console on all channel positions.
8. "Switching voltage yes" so that the picture is immediately visible on the screen when playing back from a video device connected to the EURO-AV socket.

<sup>(1)</sup> AV2 is not available in DVB-T models.

## Under "Settings" you will find the following functions:

### Channels

- Automatic search • Manual settings • Change

### Parental lock

If you do not want your children to be able to use the TV unsupervised, activate the parental lock by entering a four-digit access code. You can change or delete this access code in the "Parental lock" menu (see also page 28).

Switch the set to stand-by after entering the access code or switch it off with the On/Off button (mains voltage). When switching on the set only shows a picture when you enter your access code.

### Timer functions

You can have your TV switch off at pre-programmed times or wake you/ remind you with radio or TV. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

- TV off once only • One-time reminder • Wake up (Mo - Su)
- Wake up with TV or Radio • Wake up volume

### Time and date

When you receive teletext, the correct date and time setting is picked up by the set automatically. The time is for information for timing services, e.g. alarm. If you do not receive teletext you have to set the date and time manually.

Use the numeric buttons on the remote control and the arrows **◀ ▶** to move from one digit position to the next.

In the time and date menu you can also set when you want the TV set to automatically start and end daylight saving. You can also set a deviation UTC.

### Language

You can set the language in which the menus are displayed under Settings - Language.

If "your" menu language is not set, you may have to select the "Language" menu in a language you cannot understand:

1. Press the **INFO** key while no menu is displayed. The index appears.
2. Select the first entry on the first page (1/2), if it is not selected automatically.
3. Confirm with **OK**.

You are now in the language menu and can select your language and enter it with "**OK**".

# Modes of operation

## Teletext mode

Teletext transmits information such as news, weather, sport, program previews and subtitles.

 Teletext on/off.



Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into topic groups and topics. After switching on the teletext, up to 252 pages are stored for fast access.

### Page selection with the coloured buttons

The coloured bars (in TOP) or the coloured writing (in FLOF) in the penultimate row show you which coloured buttons to use, to scroll to topic groups and topics.

-  **red:** page back (not in FLOF).
- green:** page forward (not in FLOF).
- yellow:** to the next topic (only in TOP and FLOF).
- blue:** to the next topics area (only in TOP and FLOF).

### Other page selection options



Mark a specified page number on the page (**Page Catching**).



Call.



Call **contents page** 100



Call the **TOP table**.

The TOP table is a general list of teletext. You can only call the table on stations, which use the TOP operating system.



Select a topic area with **▼ ▲**.



Select the Topics column with **▶**.

Select topic with **▼ ▲** ...

... and display page with **OK**.



Enter the page number directly.

### Displaying teletext pages



Stop self-turning pages (HOLD).



**ZOOM** page top part – bottom part – normal size (press button several times).

# Modes of operation

## Teletext menu

**MENU**

Call the Teletext menu.



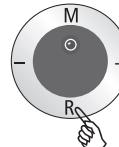
Here you will find functions such as:

- "Reveal" concealed information, e.g. VPS pages in the station table pages
- In the Settings you will find menus to define the preview pages, subtitle pages and the character set.

## Radio mode

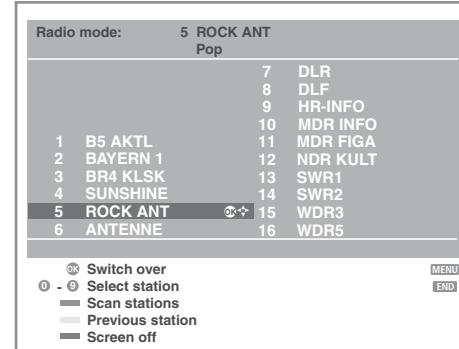
**RADIO**

You can switch radio operation on and off with the **RADIO** button on the remote control or ...



**R** on the operating ring on the TV.

You see a station table of the radio stations.

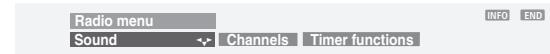


You can switch off the screen with the **red** button. The LED on the TV changes from green to red. You can switch the screen display back on with the **red** or the **END** button on the remote control or with **R** on the operating ring of the TV set. Station switching with dark screen: with **-** or **+** on the operating ring on the TV set or with the remote control **P-** and **P+** or with the numeric buttons. The Sound menu can be called with the **INFO** button in radio mode.

## Radio menu

**MENU**

Call Radio menu.



In the Radio menu, as in TV mode, you can:

- Set the sound
- Search for radio channels and store them (automatically or manually), delete, move or rename them.
- Set timer functions.

# Modes of operation

## EPG - Programme guide

(only for DVB-T stations)

EPG is an electronic program guide. With this system, you can easily find the stations that interest you (sorted according to date, time, channel and topic) and tag these stations if required.

### Using the EPG

\* EPG Switch EPG on/off



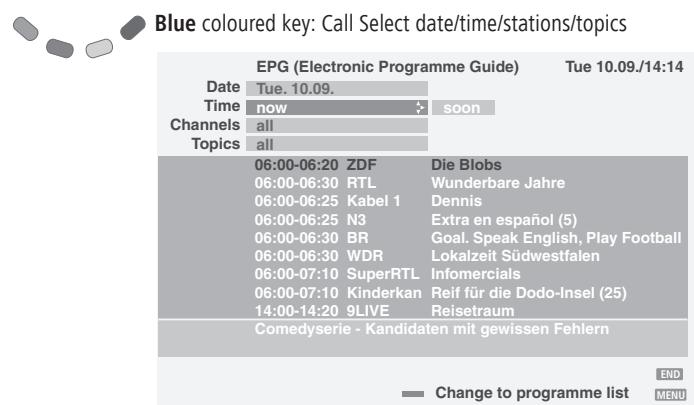
The programme guide menu is divided into two areas: at the top, you can make the settings for the programme list (date, ..., topics); on the bottom, the programme list is displayed. Use the **blue** coloured key to switch between the two areas to make your selections.

All programmes **currently** running are listed initially in the programme list. With the **▼ ▲** buttons, select the programme you want to watch and switch over with the **OK** button.

Use **P+P-** to scroll up or down through the pages of the programme guide. In the selection lines for date and time above, you will see the time change when scrolling; when you scroll further, the date also changes. When the "Time" line is selected, you can enter the time as of which the programmes are to be displayed; use the numeric buttons on your remote control to do this. Always enter four digits, such as 0900 for 9 a.m.

If programmes are displayed which have not yet started, you can mark these with the **OK** button. The TV set then switches automatically to this station at the given time.

You have direct access to the selection lines above to pre-select the day, the time, the station and the topic.



Use **▼ ▲** to select the menu line for the date, time, stations or topics. Use **◀ ▶** to select within the menu line. If, for example, you are looking for the next news, select today's date, "Soon" under Time, "All" under Stations and "News" under Topics. Then you get a list of all news programmes in the programme list below.



If you want to mark one of these news programmes, return to the programme list using the **blue** coloured key, select the desired news programme by using **▼ ▲** and mark this by using **OK**.

In front of the programme's title, the system places an **✓**. This station is switched later to this programme when the set is switched on. If the TV is off, it switches on again automatically at the beginning of the marked programme if this has been set in the EPG menu. If you are out, a security prompt prevents the TV set staying on unattended.

Before leaving the upper selection lines using the **blue** coloured key, select a specific line. If you have switched back to the programme list, you can change this menu line using **◀ ▶** without having to leave the programme list.

# Modes of operation

## EPG menu

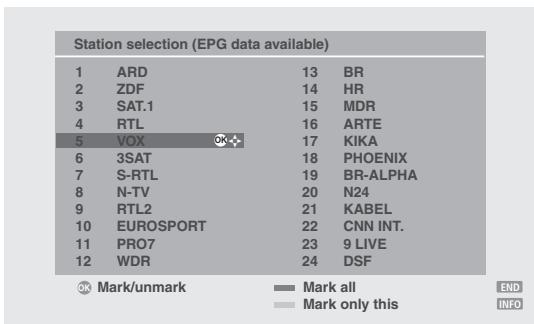


You will find the following settings in the EPG menu:

- Station selection
- Switch on TV when marked

## Station selection

If you want certain stations not to appear in the program guide, you can select and deactivate these in the **station selection**. Call the station selection in the EPG menu.



All stations are marked initially. These stations are then available for the evaluation in the program guide (prerequisite: EPG data are transmitted for the respective station).

You can change the station selection with:



Select/remove individual stations.

**green** coloured button: All stations are selected.

**yellow** coloured button: One station is selected. All selected stations are then removed.

## Switch on TV at memo

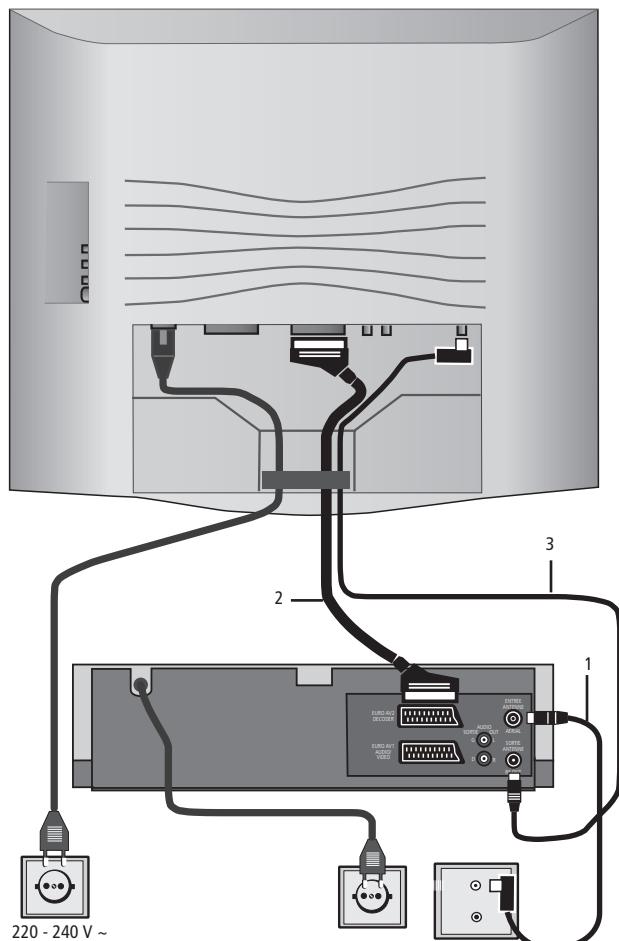
You can have the TV switched on automatically from standby at the beginning of the memorized program. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

The prerequisite for switching on is that "Switch on TV when marked" in the EPG menu is "yes".

# Operating additional equipment

## Connecting recorders

1. Connect your antenna or cable connection to the recorder (1).
2. Connect the recorder to the Euro-AV sockets on the TV set if possible (2).
3. Connect the antenna output of the recorder to the antenna input of the TV set (3). The antenna signal is then available to both the tuner in the recorder and in the TV set.



## Log in the device

1. Call the TV menu.
2. Select "Connections".
3. Select the free connection (AV1, AV2<sup>(1)</sup> or AVS).
4. Select the device type you want to connect and its signal type in the connection wizard, e.g. "VHS/8 mm....VCR" for video recorder.
5. Confirm with **OK**.
6. Select the colour norm of the video device. If you do not know it, select "automatic".
7. Confirm with **OK**.

## Video playback

You get the best picture and sound reproduction when the recorder, DVD player or camcorder is connected by an AV cable (Scart cable) to one of the AV sockets of the TV.

When you are playing a video recorder, DVD player, camcorder or digital camera, select the AV socket to which the video device is connected with "AV selection" (button 0 AV) or with the station table.

Recorders transmit a switching voltage during playback which the TV set can decode (set Connections – Switching voltage to "yes" in the TV menu). Then the picture of the recorder is shown at the current channel position during playback.

## Calling an AV program in the AV selection list

0 AV

Call AV selection.

AV selection  
AV1  AV2  AVS

Select AV socket for external video device.



Call with **OK**.

Now you will see the playback from the connected video device.

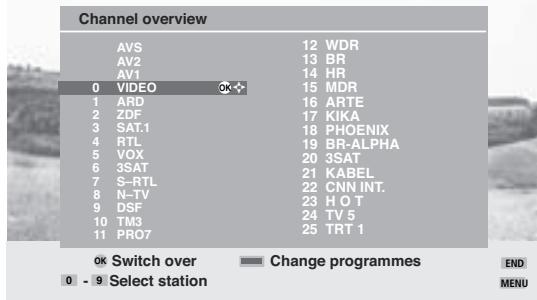
<sup>(1)</sup> AV2 is not available in DVB-T models.

# Operating additional equipment

## Calling AV stations with the channel overview



Call the channel overview with the **OK** button in TV mode.



You will always find the AV sockets at the top of the list without station numbers.



Select the AV socket.



Call with **OK**.

Now you will see the playback from the connected video device.

## Search for and store the station of the video recorder (if no Euro AV cable is available)

Switch on the test station on the VCR or insert a recorded tape and start playback. In some video recorders the station must be switched on by activating the modulator.

Then call the AV selection on the TV set with **0 AV**. Select the menu item "**0 VIDEO**" in the AV selection and call with **OK**.

To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the cable to the antenna system).

If you cannot see the test station or playback from the cassette, the VCR is transmitting on a different channel. You then have to search for the station or set it manually.

1. Call the TV menu with the **MENU** button.
2. Select the "Settings" menu item with **◀ ▶**.
3. Select the line below it with **▼** and "Channels" with **◀ ▶**.
4. Select the line below with **▼** and "Manual settings" with **◀ ▶** and call this menu with **OK**.
5. For models **without** DVB-T:  
Select "UHF" in the "Range" menu item and enter "E30" under the "Channel" menu item.  
For models **with** DVB-T:  
Select "Antenna/Cable" in the "Signal source" menu item and enter "E30" under the "Channel" menu item.
6. Start search with the **blue** button.
7. If the station has been found, enter the name **VIDEO**, confirm with **OK** and save with the **red** button.
8. A list of the stored stations is displayed.
9. Select **0 (VIDEO)** here and overwrite this program place with the **red** button.
10. Hide the menu again with the **MENU** button.

Plug the antenna plug back in.

If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR and search for the VCR station on the TV again.

# Operating additional equipment

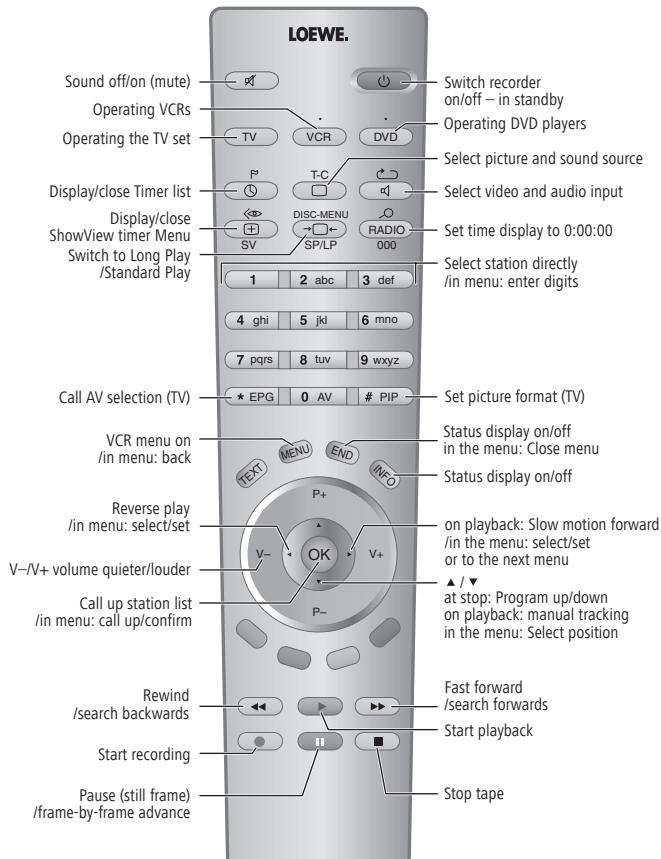
## Operating Loewe video recorders and Loewe DVD players directly

You can switch over the remote control of the TV set to operate Loewe video recorders and Loewe DVD players. These devices can be operated directly.

### Select the device to be operated:

- VCR** Press **VCR** button, the lamp above lights for about 5 secs.
- DVD** Press the **DVD** button, the lamp lights up for about 5 secs.
- TV** Switch back to TV operation: Press the **TV** button.

### Functions for Loewe video recorders – Remote control RC4



When operating in the VCR or DVD mode, the lamp above the VCR or DVD button lights.

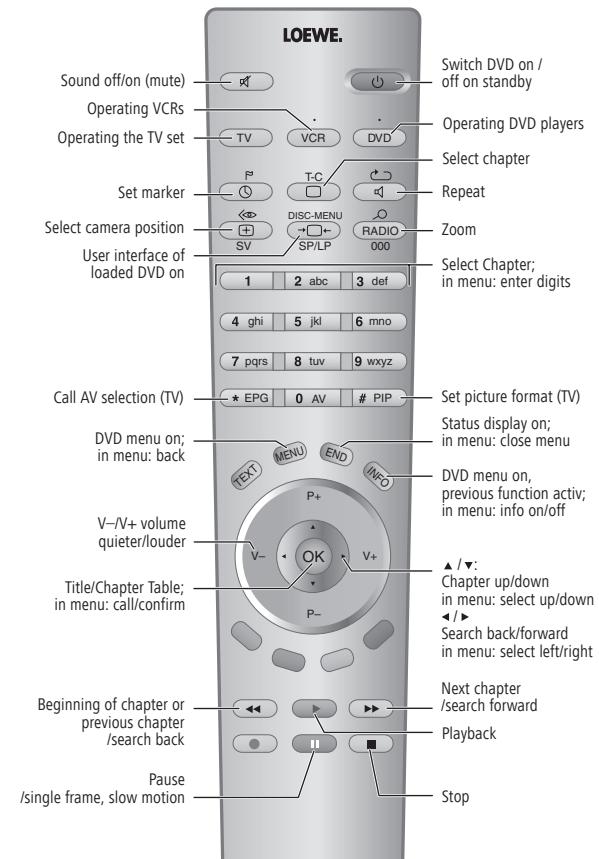
In DVD mode the following DVD players can be operated: Xemix 6122DO, 8122DA und 6222PS.

In VCR mode the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H.

For other Loewe equipment than that listed, please use the original remote control.

DVD Recorder Centros: with the enclosed remote control of the Loewe Centros DVD recorder it is also possible to control the TV functions.

### Functions for Loewe DVD players – Remote control RC4



## What to do, if ...

Problem	Possible cause	Help
The device cannot be operated.	Parental lock is activated.	Deactivate the parental lock: In the TV menu - Settings - switch off parental lock or enter secret code.
General problems with connecting external devices via an AV input.	a) The AV standard is set incorrectly b) The AV signal is set incorrectly	a) Set the standard correctly b) Set the AV signal correctly If "Automatic" is set for AV standard or AV signal, this can lead to faulty detection in the case of non-standardized signals. Then the standard and the signal must be set according to the specifications in the operating manual of the external device.
No sound via the TV loudspeakers.	In the Sound menu - other the item "Sound via ..." is not set to "TV".	Change setting to "TV".
All menus appear in the wrong language.	Wrong menu language set.	<ol style="list-style-type: none"> <li>1. Press the <b>INFO</b> key while no menu is displayed. The index appears.</li> <li>2. Select the first entry on the first page (1/2), if it is not selected automatically.</li> <li>3. Confirm with <b>OK</b>. You are now in the language menu and can select your language.</li> </ol>
Various characters are displayed incorrectly in teletext.	The wrong character set is set in the Teletext menu.	Set the correct character set: Teletext menu - Settings - Character set - Standard or the appropriate character set.

# Technical data

Type	Xelos A20	Xelos A20 DVB-T	Mimo L20	Mimo L20 DVB-T
Item No.	65411 A60	65411 A88	65410 A60 / K60	65410 A88 / K88
Dimensions with foot WxHxD (cm)	53,8x53,9x25,7	53,8x53,9x25,7	50,0x53,9x25,7	50,0x53,9x25,7
Dimensions without foot WxHxD (cm)	53,8x53,9x7,7	53,8x53,9x7,7	50,0x53,9x7,3	50,0x53,9x7,3
Image format	4:3	4:3	4:3	4:3
Image diagonal (cm)	51	51	51	51
Pixel format	640 x 480	640 x 480	640 x 480	640 x 480
Contrast ratio	500:1	500:1	500:1	500:1
Angle of viewing horizontal/vertical	176°	176°	176°	176°
Weight with foot (kg)	9,9	9,9	9,8	9,8
Weight without foot (kg)	8,5	8,5	8,4	8,4
Power consumption (Watt) IEC 62087	52	56	52	56
Power standby (Watt)	2,8	2,8	2,8	2,8

## General

Ambient temperature

0° – 40° Celsius

Chassis name

L 2100 / L 2110 (DVB-T)

Power supply

230 V +15/-20% / 45-65 Hz

Tuner

VHF/UHF/cable

Hyper band 8 MHz

41 MHz to 860 MHz

Station slot memory

200

TV standards

B/G, I, L, D/K

DVB-T<sup>(1)</sup>

Colour standard

SECAM, PAL,

NTSC-V, PAL-V (60Hz)

Sound standard

mono/stereo/2-sound

Nicam B/G, I, L

Dolby Virtual

Rated audio power

2 x 2 Watt

Teletext

Level 1.5

FM-Tuner

87,5 – 108 MHz

## Connections

Jack 3.5mm

Headphones 32–2000 Ohm

Mini-DIN (AVS)

Y/C (S-VHS / Hi 8)

Cinch (yellow)

CVBS (VHS/8 mm)

2 x Cinch (white/red)

L / R

2 x Cinch (white/red)

Audio OUT (level adjustable)

L / R

IEC socket 75 Ohm

Antenna / cable/FM Radio

IEC socket 75 Ohm<sup>(1)</sup>

DVB-T

IEC socket 75 Ohm<sup>(1)</sup>

DVB-T antenna output

EURO AV 1

Video IN

Y/C (S-VHS / Hi 8)

NTSC-V, PAL-V (60Hz)

CVBS (VHS/8 mm), RGB

mono/stereo/2-sound

CVBS

Nicam B/G, I, L

L / R

Dolby Virtual

L / R

2 x 2 Watt

Y/C (S-VHS / Hi 8)

Level 1.5

CVBS (VHS/8 mm)

EURO AV 2<sup>(2)</sup>

Video IN

CVBS

87,5 – 108 MHz

L / R

Video OUT

L / R

Audio IN

L / R

Audio OUT

L / R

<sup>(1)</sup> only for DVB-T models.

<sup>(2)</sup> AV2 is not available in DVB-T models.

# Accessories

## Stand

Use the Flat-TV F-Stand 2 , Loewe order no. 63495A00.

## Wall holder

Use the wall holder WM35, Loewe order no. 65495A00.

## VESA adapter

The VESA adapter offers you the possibility of also using your TV set for other VESA-compatible fastening devices.

Loewe order no. 89691A00

Note: Please only use the original LOEWE VESA adapter for your TV set and use the VESA-compatible fastening devices recommended by LOEWE.

## Loewe DVD players and recorders

The DVD players and recorders from Loewe are characterized by form and colour which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

Subject to delivery options.

# Service



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